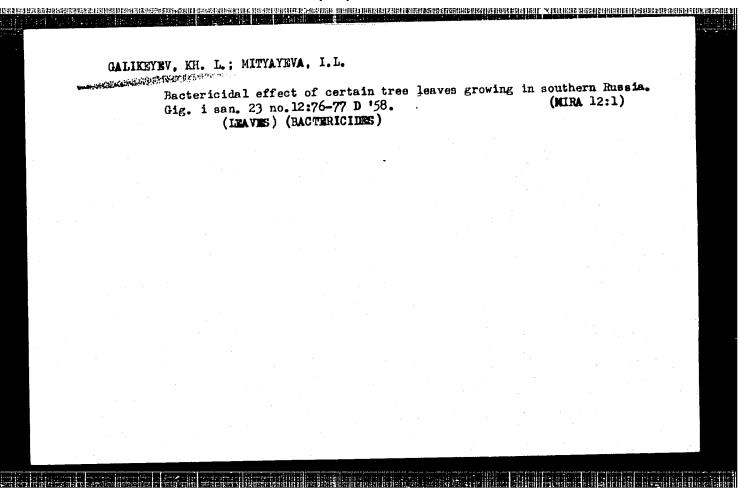
GALIKEYKY KL L

Paraagglutinating strains of Escherichia coli isolated from different animals; author's abstract. Zhur.mikrobiol.epid. i immun. 28 no.5:98 My '57. (MLRA 10:7)

1. Iz Kishinevskogo meditsinskogo instituta.
(ESCHERICHIA COLI)



- 62563-65 UR/02110/65/000/006/0093/00911 ACCESSION NR: AP5015002 AUTHOR: Galikeyev, Kh. L. Investigation of allergenic properties of times in room dusti-TITLE: Gigiyena i sanitariya, no. 6, 1965, 93-94 SOURCE: TOPIC TAGS: microspore, air pollution, fungus, allergy Suspensions of 100 dust samples from residential ABSTRACT: buildings, classrooms, and movie theaters were cultivated in Sabouraud's medium at 22° for 10 days to determine the number of colonies and the number of spores per 1 g of dust, and to identify fungi species. Spores of the following fungi species were found Cladosporium, Penicillium, Aspersillus, Mucorales, Candida and Alternaria. The allerganic properties of these fungi well investigated in 20 rabbits. First, the animals were sensitized with subcuten-eous injections of different dust samples suspended in a physiological solution (1:10) and administered every 4 days in a volume of 0.1-0.3 ml for a 25 day period. Then the animals were subjected to skin tests in which allergens, prepared from the isolated dust fungi, were injected intracutaneously in the form of a starile filtrate Card 1/2

L 62863-65 ACCESSION NR: AP5015002 (0.1 ml). Seven tests with different allergens were staged on each animal to determine the number of positive reactions. A skin reaction appearing within 24 hrs in the form of reddening and an infiltrate 1.5 cm or more in diameter was considered positive. The highest number of positive reactions was produced by the allergens of Cladosporium (10), Penicillium (11), and Aspergillus (5). During the Winter the Highest humber of fungi spores per 1 g of dust was found in movie theaters (500,000) compared to 300,000 for household dust, 150,000 for classroom dust, and 200,000 for street dust. During the summer the highest number of fungi spores per 1 g of dust was also found in movie theaters (1,000,000) compared to 800,000 for household dust. dust, 100,000 for classroom dust, and over 1,000,000 for street dust. Orig. art. has: 2 tables. ASSOCIATION: Novokuznetskiy institut usovershenstvovaniya vrachey, Kuzbass (Novokuznetskiy Institute for the Advancement of Thysicians) 05Feb61 SUBMITTED: ENCL: 00 HUB CODE: LS NR REF SOV: 002 OTHER: 003 Card 2/2/m

GALIKETEV, Kh.J.,

Biochemical activity of the extracts from nonputhogenic fungi,
isolated from air. Mikrobiologiia 34 no.48727-729 Jl-is 165.

(MIRA 18:10)

l. Novekuznetskiy institut usovershenstvovaniya vrachey.

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L 2160-66

ACCESSION NR: AP5023677

UR/0219/65/060/009/0078/0080 616-022.822.8-032 : 611.2]-092.9

616-056.3-02 : 582.28]-032 : 611.2

5

AUTHOR: Galikeyev, Kh. L.

Experimental induction of an aerogenic fungus allergy TITLE:

Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 9, 1965, SOURCE:

78-80

TOPIC TAGS: allergy, fungus

ABSTRACT: After sensitization of a group of 20 guinea pigs with an extract of spores from the fungus Cladosporium mixed with streptococcal hyaluronidase, 12 showed a positive reaction to homologous fungi - restlessness, scratching, and expiratory dyspnea; lung changes included muscular spasm in the bronchi and infiltration of plasmocytes and histiocytes in the peribronchial connective tissue. When a second group of 20 guinea pigs were sensitized with an extract of spores without streptococcal hyaluronidase, only 5 had a positive reaction, indicating that the enzyme increased the permeability of the mucosa of the respiratory tract. In a third

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group of 20 animals that received the spores orally (twice at 5-minute intervals) and were then chilled, 3 reacted positively; these animals were evidently sensitized by penetration of the allergen into the gastrointestinal tract. None of 20 guinea by penetration of the allergen into the gastrointestinal tract. None of 20 guinea pigs in a fourth group sensitized with 20% horse serum reacted to the fungus allerpigs in a fourth group sensitive in 12 of the animals sensitized with the fungus exgen. Skin tests were positive in 12 of the animals sensitized tract mixed with streptococcal hyaluronidase and in 10 of the animals sensitized with the fungus extract alone. Keratoconjunctival tests were positive in 17 animals in the first group and in 14 animals in the second group. The author concludes that in the first group and in 14 animals in the second group. The author concludes that it is possible to induce an aerogenic fungus allergy in guinea pigs by sensitization with an extract from the spores of saprophytic fungi mixed with streptococcal hyaluronidase followed by inhalation of the spores of homologous fungi. Orig. art. has: 1 table.

ASSOCIATION: Kafedra mikrobiologii, Novokuznetskogo instituta usovershenstvovaniya vrachey (Department of Microbiology, Novokuznetsk Institute of Postgraduate Medi-

cine)

SUBMITTED: 22Apr64

ENCL: 00

SUB CODE: LS

NO REF SOV: OOL

OTHER: 003

Card 2/2

CIA-RDP86-00513R000614110009-9"

ARTAMONOV, Ts.; SHTEYNBERG, Ya.; GALILEYEV, M.

Strength calculation of circular culvert sections. Avt. dor.
no.10:24-25 0 164. (NERA 17:12)

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USSR/General Problems of Pathology - Tumors. Experimental Therapy.

U.

Abs Jour

: Ref Zhur - Biol., No 19, 1958, 89598

Author

: Galikeyeva

Inst Title

: Treatment of Capillary Angiorns with Radioactive

Phosphorus.

Orig Pub

: V. sb. Primenemiye radioaktivnogo fesfora dlya lechemiya

kozhnykh zabolevaniy M., Med(iz, 1955, 106-107.

Abstract

Twenty seven patients with flat capillary angionas were

treated with radioactive P. Of these, 16 received one

course of treatment, 8 - 2 courses, 3 - 3 courses.

Within 1-2 weeks, manifestations of dry epidermititis developed in 15 patients, and moist denatitis in 12, particularly after treatment with doses of 3500 and 4000 r. p32 therapy was effective in the majority of patients;

the capillary anciona disappeared at times after the first

Card 1/2

- 22 -

USSR/General Problems of Pathology - Tumors. Experimental

U.

Therapy.

Abs Jour

: Ref Zhur - Biol., No 19, 1958, 39593

course of treatment; best results were observed in those associated with the development of moist dermititis.

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R000614110009-9"

PHASE I BOOK EXPLOITATION

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11(0)

Kamyshev, Sevast'yan Filippovica, <u>Galikhin</u>, <u>Viktor Dmitriyevich</u>, Larin Vasiliy Il'ich, <u>Mikhaylov</u>, <u>Ieonid Leonidovich</u>, <u>Filonova</u>, <u>Lidiya Ivanovna</u>, Yasnits, <u>Mikhail Grigor'yevich</u>, and <u>Kvochkin</u>, <u>Fedor Abramovich</u>

Groznenskaya neftyanaya promyshlennost: (The Grozny Petroleum Industry) Moscow, Gostoptekhizdat, 1957. 57 p. 1,500 copies printed.

Executive Ed.: Lozbyakova, Ye. S.; Tech. Ed.: Polosina, A.S.

PURPOSE: The book is intended for engineers, technicians and workers in the petroleum industry.

COVERAGE: The status of the Groznyy petroleum industry before the Revolution and the achievements in the recovery and refining of petroleum during the 40 years after the Revolution are discussed. New oil fields, petroleum installations and modern techniques and procedures introduced in the Groznyy petroleum industry are described. No facilities are mentioned. No references are given.

Card 1/3

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The Groznyy Petroleum Industry		
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Ch. IV. Development of Techniques of Oil Well Drilling Technology is the Groznyy Oilfields Oil well drilling Construction of derricks Oil well structure Drilling conditions, turbodrills and rock bits Directional turbodrilling Mechanization of the labor-consuming operations Drilling and power equipment Cementing wells Testing wells	32 33 34 35 37 41 42 42 43
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AVAILABLE: Library of Congress	
Card 3/3 TM/mas 3-19-59	

GALIKOV, V.A.; SITNIKOV, V.L.

Techniques and work methods of flame cleaners E.F. Abrosimova and D.P. Semikhatova. Metallurg 2 no.6:35-36 Ja '57. (MIRA 10:6)

1. Nachal'nik issledovatel'skoy laboratorii organizatsii proisvodstva i truda (for Galkov), 2. Rukovoditel' prokatnoy gruppy laboratorii (for Sitnikov). 3. Zavod "Krasnyy Oktyabr". (Metals--Cleaning)

GALIKOWSKA, Wieslawa

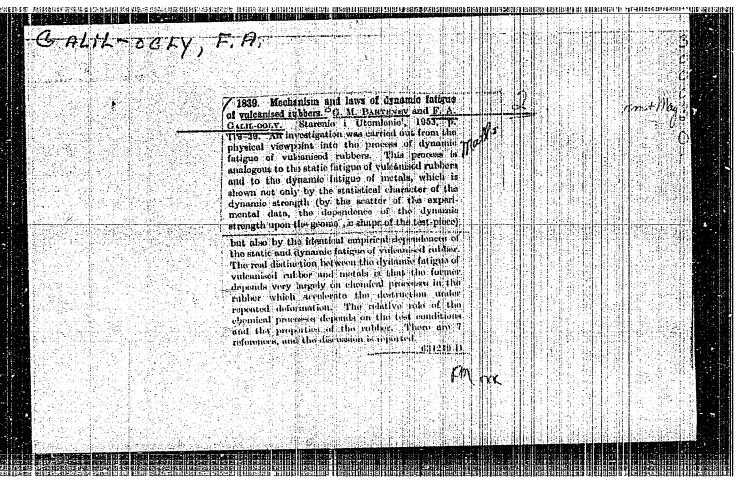
Materials on the knowledge of vascular plants from the vicinity of the town of Bytow. Biologia Poznan no.5:103-114 164.

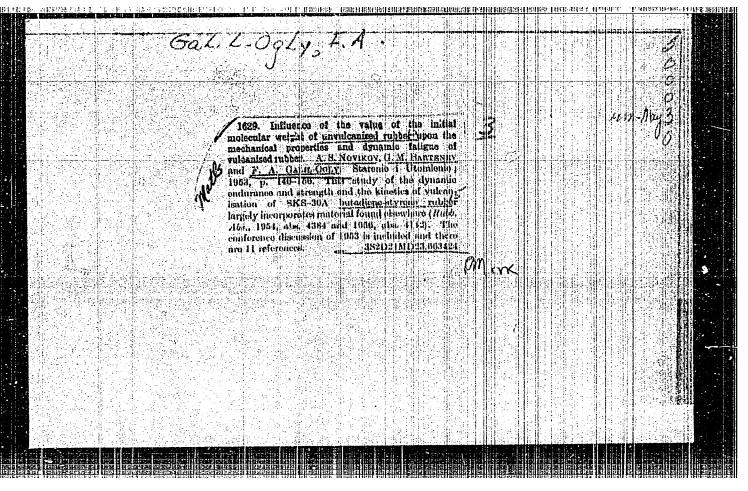
1. Department of Plant Taxonomy and Geograpy of the A.Mickiewicz University, Poznan.

GALIKOWSKI, R.

Analysis of the working conditions of ball-pinned bearings used in aircraft instruments. p. 52. (TECHNIKA LOTNICZA, Tarszawa, Vol. 10, No. 2, Mar./Apr. 1955)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

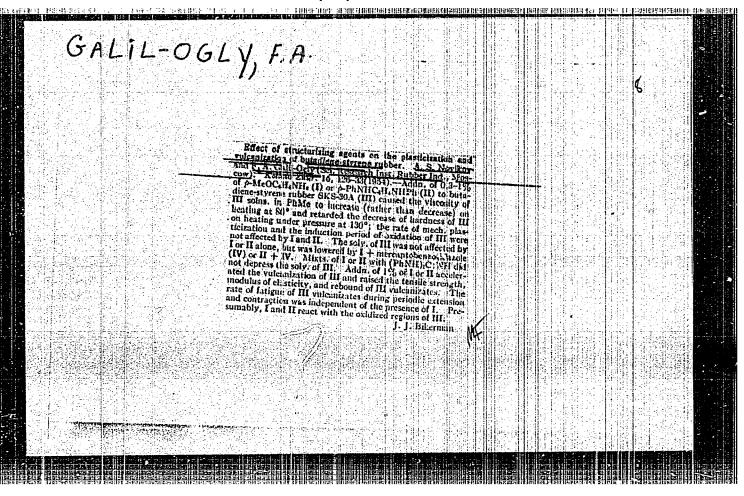


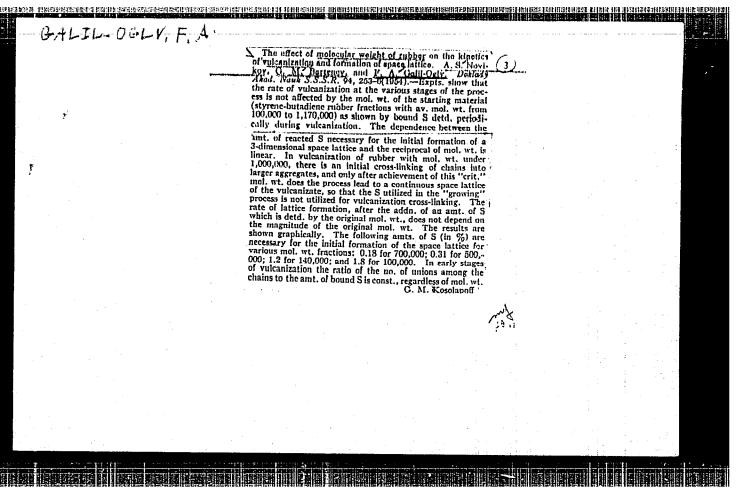


GALIL-COLY, T. A.

Dissertation: "Investigation of Dynamic Patigue of Author." Cand Chem Sci, Noscow Inst of Fine Chemical Technology imeni M. V. Lomonosov, 19 May 54. Vechernyaya Moskva.

SO: SUM 284, 26 Nov 1954





SOV/124-57-5-6197

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 167 (USSR)

AUTHORS: Barteney, G. M., Galil-Ogly, F. A.

TITLE: Mechanism and Patterns of the Fatigue Induced in Rubber by Dynamic

Loads (Mekhanizm i zakonomernosti dinamicheskoy ustalosti rezin)

PERIODICAL: V sb.: Stareniye i utomleniye kauchukov i rezin i povysheniye

ikh stoykosti. Leningrad, Goskhimizdat, 1955, pp 119-129

ABSTRACT: A study was made of fatigue processes induced by dynamic loads in specimens of industrial rubber made from SKS-30 India rubber. The

specimens were tested in two ways: 1) some were subjected to loads of known intensity, and 2) others were subjected to loads that

stretched them to their respective limits of extensibility. The authors stress the resemblance which they observed between the fatigue processes that resulted and: (a) The fatigue behavior of rubber subjected to long-term static loads, and (b) the fatigue behavior of metals subjected to repeated loadings. They point out that the strength of rubber subjected to repeated loadings is largely dependent on the chemical

processes within the rubber which are induced by such loadings and Card 1/2 which occur concurrently with them. The nature and course of such

and the control of th

Mechanism and Patterns of the Fatigue Induced in Rubber by Dynamic Loads chemical processes, in turn, depend on the prevailing conditions of load application and on the specific properties of the rubber in question.

L. A. Vishnitskaya

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USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6023

Author: Novikov, A. S., Bartenev, G. M., Galil-Ogly, F. A.

Institution: None

Title: Effect of Magnitude of Initial Molecular Weight of Rubber on Mechanical Properties and Dynamic Fatigue of Vulcanizates

Criginal

Publication: Sb. Stareniye i utomleniye kauchukov i rezin i povysheniye ikh stoykesti. L., Goskhimizdat, 1955, 140-156

Abstract: A study was made of vulcanizates prepared from different fractions of SKS-30A of molecular weight 50,000-1,200,000. Mechanical properties were studied using a dynamometer of the Polanyi type, and the fatigue by means of a special apparatus, at constant amplitude of deformation and also with constant terminal load (selecting the residual deformations). Rate of addition of S to rubber does not depend on its

molecular weight, although degree of vulcanization, determined on

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6023

Abstract: the basis of equilibrium modulus, is lower, with all other conditions being equal, in the case of vulcanizates of rubbers of lower molecular weight. This is due to the fact that with low molecular weights the addition of S does not yield immediately a single spatial structure and a portion of the S is added intramolecularly. Stress relaxation in vulcanizates with identical vulcanizing group occurs more rapidly in the case of a rubber of low molecular weight. With an equal concentration of cross linkages the mobility of the chains is reduced in the case of low molecular fractions. Strength, both tensile and of fatigue resistance, increases with molecular weight only as far as about 300,000, remaining practically constant beyond this value. On mixing of high molecular fractions with low molecular there is observed a sharp decrease in strength, even though the average molecular weight value may be sufficiently high under such conditions.

/2

GALIL OGLY, F.A.

USSR/Chemistry - Rubber

FD-1801

Card 1/1

Pub 50-5/19

Author

: Kaluzhenina, K. F., Galil-Ogly, F. A.

Title

: Production of colored rubber with the application of domestic dyestuffs

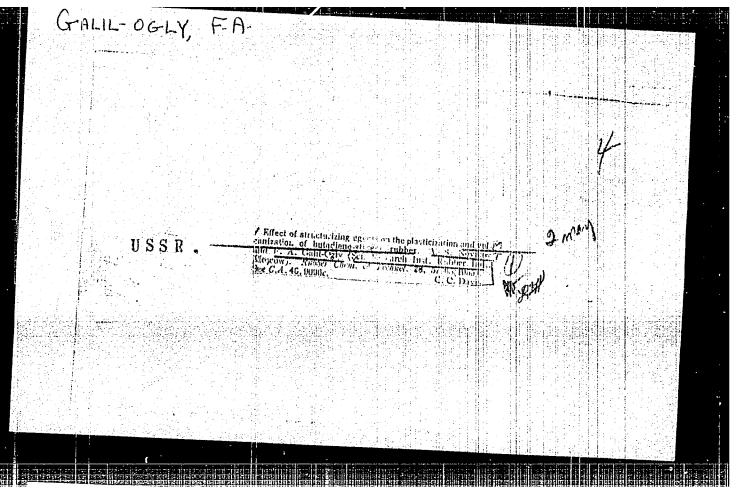
Periodical: Khim. prom., No 2, 79-82 (15-18), Mar 1955

Abstract

: Thirty dyestuffs have been tested in regard to their suitability for the preparation of pigments to be used in coloring rubber. Nine have been selected as suitable. Procedures for the production of colored rubbers and white rubber are described. The effects of fillers, vulcanization accelerators, antioxidants, and other admixtures on the color are discussed.

Eleven references, 3 USSR, all since 1940. Two tables.

Institution: Scientific Research Institute of the Rubber Industry



GALIL-OGLY, F.A.

USSR/ Chemistry - Rubber fatigue

Card 1/1

Pub. 22-20/54

Authors

Bartenev, G. M., and Galil-Ogly, F. A.

Title

Dynamic fatigue and the mechanism of the destruction of rubber during

Periodical

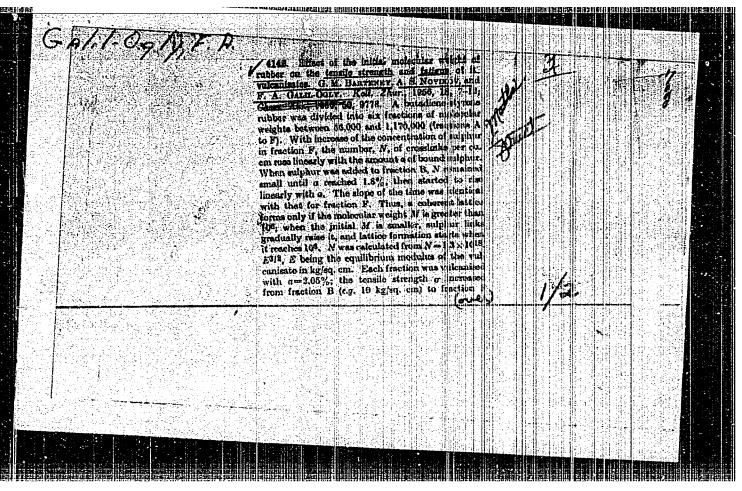
Dok. AN SSSR. 100/3. 477-400, Jan 21, 1955

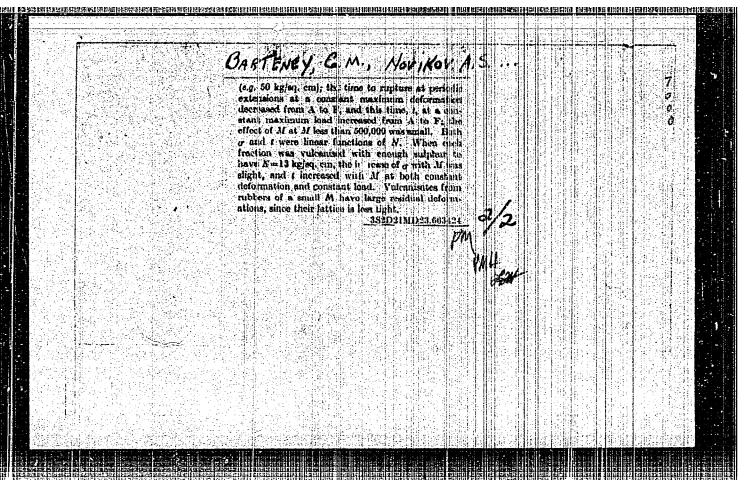
Abstract

Experiments showed that dynamic fatigue of rubber results from chemical oxidizing processes and the destruction of rubber during repeated deformations occurs through the breaking away of the rubber chains under the effect of mechanically activated chemical processes. The physical factors affecting the dynamic fatigue of rubber are listed. The relation between the fatigue and strength characteristics of rubber is explained. The basic laws governing the dynamic fatigue of rubber and the mechanism of destruction during repeated elongations are described. Eight references: 6 USSR and 2 English (1936-1953). Graphs, illustrations.

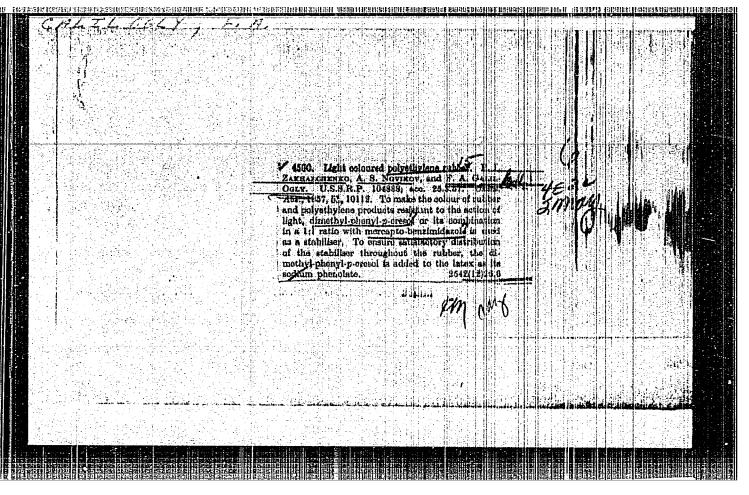
Institution : Scientific Research Institute of Rubber Industry

Presented by : Academician V. A. Kargin, Hay 22, 1954





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s/138/59/000/07/06/009 82265

AUTHORS:

Galil-Ogly, F. A., Skuba, I. A., Novikov, A. S.

TITLE:

Metal Fluorides - Fillers for Fluorocopolymer Rubbers

PERIODICAL: Kauchuk i Rezina, 1959, No. 7, pp. 31-36

The authors discuss the problem of increasing the thermal resistance of rubbers used in machine-building. They point out that this property can be improved by the addition of special thermoresistant fillers to the fluorinecontaining rubbers. Attention is drawn to Ref. 4, 5, where information is available on thermoresistant fillers used abroad in the last 3 years, such as sodium, cesium, lithium, calcium zirconates, fluorozirconates, sto. In the present article various metal fluorides were investigated as fillers for fluorocopolymer rubbers. The latter were evaluated according to the thermoresistant properties of the resultant rubbers, as compared to rubbers filled with powdered silica gel, U-333, used at the present time for the production of rubber percxides from fluorocopolymers Lithium, zinc, barium, magnesium, strontium, calcium, and aluminum fluorides were investigated. A description is given of differences in their surface structure. Figure 1 is an electronic microphotograph of the metal fluorides, pointing out the structural difference.

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Metal Fluorides - Fillers for Fluorocopolymer Rubbers

Table 2 is a list of the physico-mechanical properties of the rubbers with various fluorine-containing fillers. The investigated metal fluorides occupy the following sequence as to their effect on the thermoresistance of the rubber: Magnesium, calcium, strontium, aluminum, lithium and zinc fluorides. It was found that barium fluoride promotes the process of destruction in the rubber during aging, which is accompanied by a sharp increase in the relative elongation of the rubber. All the metal fluorides were found to have a greater effect on the thermoresistant properties of the rubbers than powdered silica gel. The calcium fluoride yields the most elastic rubber with an increased relative elongation. Calcium fluoride was further investigated as to its initial structure, method of its production and the initial raw material used. It was shown that rubbers, containing calcium fluoride of various initial raw materials are characterized by different strength and thermoresistance. The optimum type of calcium fluoride, as a filler for fluorocopolymers, is the product obtained from the reaction between sodium fluoride, or ammonium fluoride and calcium chloride, or calcium oxide. This product gives a rubber of increased strength and thermoresistant properties. The drying temperature of the calcium fluoride affects the physicochemical characteristics and properties of the obtained calcium fluoride. Its activity also depends on the type of applied vulcanizing group. In 1958, a

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Metal Fluorides - Fillers for Fluorocopolymer Rubbers

82265

technology for the production of calcium fluoride was developed and its serial production was begun. The following conclusions are drawn: 1) The investigated metal fluorides ensure a higher thermal resistance of the rubber than the U-333, but have less strengthening effect than the latter. 2) The most active metal fluorides are the calcium and magnesium fluorides, their effectiveness depending on their specific surface and particle structure. 3) The activity of the calcium fluoride depends also on the nature of the initial raw material used in its production. 4) Particles of active calcium fluoride are characterized by a corroded surface, 0.01-0.1 micron in size, and a specific surface of 32-27 m/g. 5) The activity of the calcium fluoride also depends on the content of the mixture and vulcanization method. There are 5 tables, 3 figures, 6 English references.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber-Manufacturing Industry)

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Card 3/3

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15(9) 507/63-4-1-9/31

AUTHORS: Novikov, A.S., Galil-Ogly, F.A., Candidates of Chemical Sciences

Heat-, Oil- and Frost-Resistant Rubbers (Tepl:-maslo-morozo-TITLE:

stoykiye reziny)

PERIODICAL: Khimicheskaya nauka i promyshlennost; 1959, Vol 4; Nr 1,

pp 63-69 (USSR)

ABSTRACT: Modern machine building and jet aviation needs rubber products

for raised temperatures of 120 - 150°C and 400 - 500°C, for low temperatures of -40 to -60°C, and for various aggressive media, like oils, fuels, peroxides, etc. It is not possible to develop a polymer which satisfies all these demands. In every single case the suitable rubber must be chosen. The heat- and oil-resistance is determined by the chamical structure of the rubber. The addition of various ingredients has only a slight effect. The bonds with the highest thermal resistance are of the type C-S-C and C-C. Free sulfur in the vulcanizate has a negative effect on heat-resistance. The polysulfide bond de-

composes to bi-radicals during heat aging and has the same effect like sulfur. Unsaturated rubbers should be vulcanized

Card 1/3 without sulfur by means of thiurams or by radioactive irradia-

Heat-, Oil- and Frost-Resistant Rubbers

507/63-4-1-9/31

tion Ref 21 %. The presence of active carbon blacks reduces the absorption of exygen and the exidation of the polymer at a temperature of 100°C. At 130 - 150°C this inhibiting effect of the carbon black disappears and the suructuration processes are accelerated. At these temperatures highly-dispersed mineral fillers, like silicic acid, metal silicates, etc must be employed. The heat-resistance of unsaturated rubbers may be increased by adding aliphatic mercaptans to the double bonds of the rubber. Rubbers with high heat-resistance of 200 - 300°C may be obtained only by using rubber-like polymers, e.g. copolymers of acrylic acid with the nitrile of the acrylic acid, silicon rubber, etc. Saturated polymers are vulcanized by heating in the presence of organic peroxides. Their decomposition products can_destroy the C-C bond. High-energy radiations / Ref 44, 45_/ have shown good results in the vulcanization of these rubbers. During irradiation C-C bonds are formed. The resistance of rubbers to oils and solvents is determined by their polarity. It does not depend on the method of vulcanization. If the change of the polarity during vulcanization is considerable; the rubber obtains an increased resistance to oils, fuels, etc. The resistance to solvents may be improved by choosing a filler which is inert to the medium,

Card 2/3

Heat-, Oil- and Frost-Resistant Rubbers

507/63-4-1-9/31

but combines with the rubber. Polytetrafluoroethylene is such a filler for polysiloxane rubber. Unsaturated rubbers in an oil medium do not age so fast as in hot air because there is no oxygen. The frost-resistance is determined by the composition and the structure of the rubber. Plastication is the best method for increasing this property. For this purpose esters of the phthalic, adipinic, and sebacic acids are used. The fluorosilicon rubber of the type LS53 reaches a frost-resistance of -60°C, a heat-resistance of 200 - 250°C and a high oil-resistance but its mechanical properties are so low that it can be used only for packings, diaphragms, etc. There are 3 tables and 57 references, 24 of which are Soviet, 32 English and 1 German.

Card 3/3

• . . .

SOV/89-6-5-6/33 Galil-Ogly, F. A., Nikitina, T. S., Dyumayeva, T. N., 21(4) AUTHORS: Novikov, A. S., Kuz'minskiy, A. S. On the Radiation Vulcanization of Fluorine Copolymers

(O radiatsionnoy vulkanizatsii ftorsopolimerov)

Atomnaya energiya, 1959, Vol 6, Nr 5, pp 540-545 (USSR) PERIODICAL:

If rubber-like fluorine copolymers are irradiated, rubber having unsatisfactory physical and mechanical properties is obtained. If various additions are added to these substances before irradiation, rubber having valuable technical properties may be obtained. The rubber-like fluorine copolymer "Kel'-F" is experimentally used as elastomer. Irradiation was carried out with Co⁶⁰-disks (thickness 0.3 to 1.0 mm) with an activity of 1400 and 21000 gramequivalent Ra. The integral absorbed energy corresponded to 3 to 80.106 r. The structural change in the irradiated material was determined from the changed solubility, from the swelling limit in acetone, from the modulus \mathbf{E}_{∞} , and from other physico-mechani-

cal parameters. As additions the following substances are used: Channel black, white scot, furnace carbon black, thermal carbon

Card 1/3

TITLE:

ABSTRACT:

SOV/89-6-5-6/33

On the Radiation Vulcanization of Fluorine Copolymers

black, and zinc oxide. The experimental results are tabulated and partly shown in form of graphs. The following is worth mentioning in connection with the curves: Dependence of tearing strength, the relative elongation, the modulus E and the swelling limit on the radiation dose; the influence exercised by air and vacuum on swelling and the modulus E in the case of various radiation doses; the influence exercised by the addition of carbon black on spatial net formation as a result of irradiation. Dependence of the strength of the rubber on the quantity of carbon black added (irradiation dose 20.10°r). The following general conclusions may be drawn from the experiments: The surface activity of the additional substances exercises a decisive influence on the properties of the rubbers. The rubber which contains channel black as an addition possesses the best technical properties after irradiation. It is, above all, more resistant to heat-aging, solubility, and static deformation. The fluorine copolymers of the "Kel'-F"-type fend more towards cross-linking than polytetrafluoroethylene and polytrifluoroethylene chloride. Cross-linking is promoted by the addition of oxygen. There

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R000614110009-9"

are 9 figures, 1 table, and 10 references, 2 of which are Soviet.

NOVIKOV, A.S.; KARGIN, V.A.; GALIL-OGLY, F.A.

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Fluidity of rubbers at high temperatures. Kauch. 1 rez. 18 no.1:39-42 Ja 159. (MIRA 12:1)

1. Nauchne-issledovatel'skiy institut rezinovey premyshlennesti.
(Rubber, Synthetic-Testing)

MOVIKOV, A.S.; KARPOV, V.L.; GALIL-OGLY, F.A.; SLOVOKHOTOVA, N.A.; DYUMAYEVA, T.N.

Effect of ionizing radiation on the chemical structure of rubberlike fluorine-containing polymers. Vysokom. soed. 2 no.4:485-491 Ap '60. (MIRA 13:11)

1. Fiziko-khimicheskiy institut im.L. Ya. Karpova.
(Polymers-Spectra) (Radiation)

86318

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S/190/60/002/012/001/019 B017/B055

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AUTHORS:

Novikov, A. S., Karpov, V. L., Galil-Ogly, F. A.,

Slovokhotova, N. A., Dyumayeva, T. N.

TITLE:

The Effect of Metal Oxides on Structural Changes in

Fluorinated Rubber Copolymers Caused by Ionizing Radiation

and High Temperatures

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 12,

pp. 1761-1767

TEXT: The authors studied the effect of metal oxides (CaO, MgO) on the chemical changes in fluorinated rubber copolymers under the influence of ionizing radiation, applying a Co^{CO} source with activity 21.000 gramequivalents and intensity 0.54.10⁶ r/h. The chemical changes in the fluorinated polymers were investigated by infrared spectroscopy in the

4.000 - 1.300 cm⁻¹ region on the NKC-14 (IKS-14) spectrometer. The mechanical properties of irradiated fluorinated polymers with and without a metal oxide content are given in a table. The admixture of small

Card 1/3

(Rubber, Synthetic) (Metallic Oxides) (Polymers, Effect of Radiation on)

86318

The Effect of Metal Oxides on Structural S/190/60/002/012/001/019 Changes in Fluorinated Rubber Copolymers B017/B055 Caused by Ionizing Radiation and High Temperatures

quantities of calcium oxide was found to increase polymer strength. The change in strength after irradiation of polymers containing varying amounts of calcium oxide is shown graphically in Fig. 1. The viscosity of methyl-ethyl ketone solutions of the polymers decreases after irradiation. The infrared spectra of fluorinated polymers type CKP -32 (SKF-32) before and after irradiation, with and without calcium oxide, are shown in Figs. 5,6, and 7. A considerable number of conjugate double bonds of the type -CH=CCl-, and OH and HF² groups were found to form in the

presence of metal oxides. Metal oxides prevent the formation of volatile compounds during irradiation, since they react with these compounds. Calcium and magnesium oxide bind volatile compounds which form on heating fluorinated polymers to 200°C under pressure. The infrared spectra of fluorinated polymers before and after heating under pressure to 200°C, with and without admixture of calcium oxide are given in Fig. 8. In the irradiation of fluorinated polymers, the metal oxides act as acceptors for hydrogen-fluoride and hydrogen-chloride compounds and for fluorine, chlorine, and hydrogen. There are 8 figures, 1 table, and 11 references:

Card 2/3

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86318

The Effect of Metal Oxides on Structural S,190/60/002/012/001/019 Changes in Fluorinated Rubber Copolymers B017/B055 Caused by Ionizing Radiation and High Temperatures

5 Soviet, 3 US, and 3 British.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti

(Scientific Research Institute of the Rubber Industry).

Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: May 11, 1960

Card 3/3

15.9450

28182 S/190/61/003/010/011/019 B124/B110

//. 22/4
AUTHORS;

Lyubimov, A. N., Novikov, A. S., Galil-Ogly, F. A.,

Gribacheva, A. V., Varenik, A. F.

TITLE:

Application of nuclear magnetic resonance to studies of

rubher-like fluorine-containing polymers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 10, 1961,

1511 - 1515

TEXT: The authors determined the temperature dependence of the width of nuclear magnetic resonance bands and the second moment in fluorine-containing rubber-like polymers of different elastic properties. The following copolymers were investigated: trifluoro chloro ethylene and vinylidene fluoride (I); hexafluoro propylene and vinylidene fluoride (II); trifluoro chloro ethylene, vinylidene fluoride, and perfluoro methoxy perfluoro propyl acrylate (III); homopolymer of perfluoro methoxy perfluoro propyl acrylate (IV); and polyhexafluoro pentamethylene adipate (V). A nuclear magnetic resonance spectrometer of the usual type having linear scanning and sinusoidal modulation of the polarization field and autodyne nuclear signal pick-up was used for measurement. The field Card 1/5

Application of nuclear ...

28182 S/190/61/003/010/011/019 B124/B110

homogeneity determined from the resolution of chemical resonance shifts of F¹⁹ was 10⁻⁵ within 0.5 cm³. For all polymers investigated, the derivatives of the resonance absorption bands of protons and fluorine between -150 and +120°C were recorded. The second moments of the resonance bands of protons and fluorine were calculated by graphic integration, and their temperature dependence was recorded (Fig. 1). Below -1!0°C, the second moments measured correspond to those of the solid structures (16 - 19.5 gauss²) and decrease with rising temperature, the course for all polymers, except for (V), being identical. The curves obtained show three sections: (1) Constant values of the second moment; (2) slow decrease of these values; and (3) rapid decrease of the second moment. The boundary of the first and the beginning of the second section is for all polymers at $\sim 110^{\circ}\text{C}$; the end of the second and the beginning of the third section is for (I) and (II) at -20°C, for (III) and (IV) at -40°C, and for (V) at about -60°C. These temperatures correspond to the vitrification points of the respective copolymers which had been determined by Kargin's dynamometer. Above the temperatures mentioned, a mobility of the molecular chain segments appears, whereas

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Application of nuclear...

in polymer (\forall) the chains, due to the presence of "hinge" OCO-groups, are more mobile than in other polymers and their heat motion sets in almost simultaneously with the beginning of re-orientation of the CH₂ groups.

Besides the rotary motions of the individual groups, also some heat motions of chain segments appear in the molecule chains of the polymers studied. By comparing the experimentally determined and the theoretically calculated second moments of hydrogen and fluorine for the copolymer of vinylidene fluoride and trifluoro chloro ethylene, it was proved that, for the two possible compounds of the monomers -CF₂-CFCl- and -CH₂-CF₂, the structure -CF₂CFClCF₂CH₂- is more probable than the structure -CF₂CFClCH₂CF₂. A chemical resonance shift of fluorine from (II) caused by the groups CF₂ and CF₃ was observed at +90°C. A. I. Kitaygorodskiy is thanked for his advice. There are 1 figure and 8 references: 1 Soviet and 7 non-Soviet. The two most important references to English-language publications read as follows: W. P. Slichter, J. Appl. Phys. 26, 1099, 1955; W. P. Slichter, J. Polymer Sci. 106, 178, 1957.

Card 3/5

28182 S/190/61/003/010/011/019 B124/B110

Application of nuclear...

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

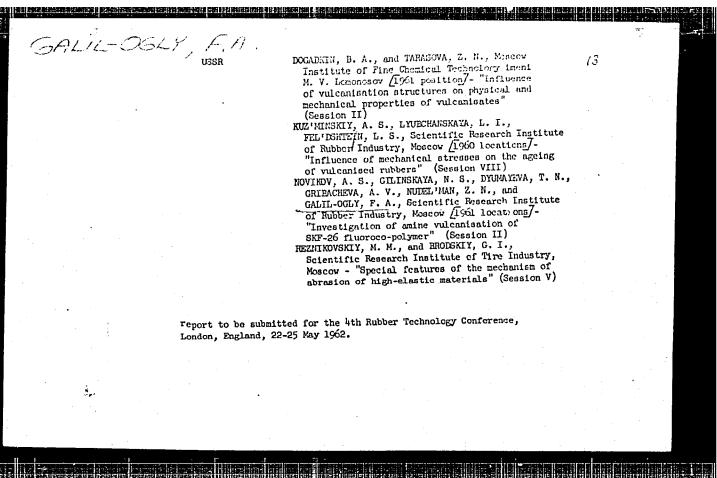
SUBMITTED: November 17, 1960.

Fig. 1. Change of the second moment for fluorine (a) and hydrogen (§) as dependent on the temperature for the copolymers: (1) vinylidene fluoride with trifluoro chloro ethylene; (2) vinylidene fluoride with hexafluoro propylene; (3) homopolymer of perfluoro methoxy perfluoro propyl acrylate; (4) vinylidene fluoride with trifluoro chloro ethylene and perfluoro methoxy perfluoro propyl acrylate; (5) polyhexafluoro pentamethylene adipate

Legend; (A) temperature, ${}^{\circ}C$; (B) $\bigwedge H^2$ gauss²

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Card 4/5



34132 \$/138/62/000/002/002/009

11.2214 15, 9206 AUTHORS:

Novikov, A.S.; Galil-Ogly, F.A.; Gilinskaya, N.S.

TITLES

"Wighton A" (Vayton) type fluoro-copolymer vulcanizates, contain-

ing benzoyl peroxide

PERIODICAL: Kauchuk i rezina, no. 2, 1962, 4 - 10

(MIRA 15:2)

Data concerning the effects of mastication, mixing and vulcanization on the properties of rubber-like fluoro-copolymer vulcanizate peroxides of the "Wighton A" type, are derived. The fluoro-copolymer vulcanization with tenzoyl peroxide is carried out in 2 steps: molding in the vulcanization press under pressure and thermostating in air without pressure. The vulcanizing action of the benzoyl peroxide is based on the removal of hydrogen atoms from the polymer chains, forming macro-radicals, and subsequent recombination of the latter, leading to the formation of a spatial lattice. Experiments revealed that in mestication and mixing on the rollers, a mechanical destruction of the mclecular chains takes place in the "Wighton A" type fluoro-copolymer, forming polymer radicals which are subsequently deactivated from their interaction with compounds constituting part of the solution's composition, or they are recombined, forming

Card 1/3

(Rubber, Synthetic) (Benzoyl peroxide) (Vulcanization)

3l,132 S/138/62/000/002/002/009 A051/A126

"Wighton A" (Vayton) type fluoro-copolymer

branched or partially laced structures. The first processes take place primarily at temperatures of from 20 - 30°C, the second at 60 - 80°C. The properties of the fluoro-copolymer vulcanizate peroxides depend on the mixing procedure on the rollers (polymer loading, roller temperature, space between the rollers, etc). The mixing conditions should be kept constant in order to form vulcanizates with reproducible properties. The vulcanization of the fluoro-copolymer with the benzoyl peroxide begins at temperatures over 80°C; thus, the molding should be carried out at temperatures not exceeding 80°C. After the first stage of vulcanization of the fluoro-copolymer with the benzoyl peroxide, the vulcanizates are characterized by a sparse spatial lattice, a low tensile strength, high residual deformation in compression. The second stage of vulcanization leads to an improvement of the mechanical properties of the vulcanization. In thermal aging of the peroxide vulcanizates, the rate of either the structuralizing or destruction processes is increased, depending on the temperature and mix filling. Articles made of the "Wighton A" type fluoro-copolymer, vulcanized with benzoyl peroxide, can be used over long periods of time at 250°C and for shorter periods at 300°C. There are 6 tables, 6 figures and 10 references: 2 Soviet-bloc and 8 non-Soviet-bloc. The references to the two most recent English language publications read as follows: J.G. Smith, Rubb. World, 140, no. 2, 263

Card 2/3

"Wighton A" (Vayton) type fluoro-copolymer A051/A126

(1959). E. Tufts, Rubb. Age, 84, no. 6, 463 (1959).

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

11.721+

34934 - 5/138/62/000/003/002/005 - A051/A126

AUTHORS:

Novikov, A. S., Galil-Ogly, F. A., Gilinskaya, N. S., Nudel'man, Z.N.

TITLE:

Vulcanization of Wighton-type fluorocopolymers with hexamethylene-

diamine

PERIODICAL: Kauchuk i rezina, 1962, no. 3, 4 - 10

Results are submitted of a study on the vulcanization processes (1st and 2nd) of the Wighton-type fluorocopolymer, using hexamethylenediamine (HNDA). Work began in 1958 and was completed in 1960. In the first vulcanization stage the formation kinetics of the vulcanization lattice in the copolymer and the quantity of bound amine were determined. Experiments showed that the Wighton-type fluorocopolymer vulcanizes with hexamethylenediamine at low temperatures (from 10°C); the degree of lacing increases with an increase in concentration of the hexamethylenediamine and temperature. During the vulcanization process with the hexamethylenediamine, a hydrogenfluoride salt is formed, indicating a splitting off of the HF from the polymer and the formation of double bonds in the chain. The HNDA salt decomposes, forming a free amine, in the presence of metal oxides, or under conditions allowing the dissociation of the hydrogen-

Card 1/3

Vulcanization of ...

\$/138/62/000/003/002/006 A051/A126

fluoride salt, with HF forming from the reaction medium. The latter explains the activating action of the metal oxides on the vulcanization process of using hexamethylenediamine. A reaction scheme is recommended. In the second vulcanization stage (heating in an air thermostat at 200°C), partial destruction of the fluoropolymer with the HMDA vulcanizates takes place. The resistance to accumulation of residual deformations and the stability of other mechanical properties are increased. One of the main reasons of destruction is moisture, introduced into the mixture with the ingredients and formed in the reaction: MgO + 2HF \rightarrow MgF $_2$ +H $_2$ O. The destruction process is affected by the moisture of the surrounding medium as well as by that contained in the vulcanizate proper. The HF is found further to affect the destruction of the vulcanizate in thermostatic treatment, causing a tear of the transverse bonds of the following type: C=N-(R)-N=C, which, in turn, are not acid-resistant. An increase of accumulation resistance of the fluorocopolymer vulcanizates to residual deformation and a stabilization of other mechanical properties during the second stage of vulcanization is explained by the elimination of moisture and volatile products when heated in air. There are 4 figures, 4 tables, 11 references: 3 Soviet-bloc and 8 non-Soviet-bloc. The reference to one of the most recent English-language publication reads as follows:

Card 2/3

Vulcanization of ...

S/138/62/000/003/002/00 A051/A126

A. H. Moran, R. P. Kane, J. F. Smith, Ind. Eng. Chem., 51, no. 7, 831 (1959).

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

Card 3/3

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34996 5/190/62/004/003/016/025 B124/B101

AUTHORS:

Novikov, A. S., Galil-Ogly, F. A., Slovokhotova, N. A.,

Dyumayeva, T. N.

TITLE:

Structural transformations of rubber-like fluorine-containing

copolymers on thermal treatment

PERIODICAL: Vysokomolekulyarnyje soyedineniya, v. 4, no. 5, 1962, 423-428

TEXT: Structural changes taking place when the copolymer "Viton A" is molded at a pressure of 270 kg/cm² and 150 to 200°C in the absence of air (stage I), and successively kept in a thermostat in an air current at 150 - 300°C (stage II) have been studied. For this purpose, and -14(IKS-14) infrared spectrometer was used. No changes in the infrared spectra were established on heating up to 150°C in the mold, while, at 200°C, two

medium-intensity absorption bands in the region of 1760 and 1725 cm $^{-1}$ corresponding to the groups $R_F^{-C-R_F}$ and $R_F^{CF=CFR_F}$ or $RCH=CF_2$, and one low-

intensity band at 1625 cm⁻¹ due to conjugated double bonds were ascertained. Card 1/4

\$/190/62/004/003/016/023 B124/B101

Structural transformations ...

Card 2/4

When the sample was heated to 150°C in the thermostat, high-intensity band was detected in the region of 1750 cm⁻¹ which is found to correspond to oscillations of double bonds of the type R_pCF=CFR_p or RCH=CF₂, and, in addition, two weak bands appear in the region of 1580 - 1600 cm⁻¹ due to conjugated double bond chains of various lengths. At 200°C, no changes in the infrared spectra nor a loss of solubility were found in the copolymer kept in the thermostat, while solubility was lowered on heating to 200 - 250°C. Numerous double bonds formed when CaO and MgO, respectively, were added to the pressurized mold at 150 - 200°C, with MgO being somewhat lease effective; the number of double bonds formed increased with temperature. Then films about 100 microns thick, with an addition of MgO, were heated, absorption bands appeared with a maximum in the region of 1450 cm⁻¹, the intensity of which increased with the time of heating. These bands are due to the appearance of the HF² ion formed by reaction of Mg with HF liberated. The appearance of a band in the 3300 cm⁻¹ region when samples containing CaO were heated proves the formation of hydroxyl groups. Thus, it can be concluded that, in the first phase, the C-F and C-H bonds are reptured

Structural transformations ...

S/190/62/004/003/016/023 B124/3101

which leads to the formation of HF, F₂, H₂ and double bonds both in the emtral part and at the ends of the chain. Up to 150°C, equilibrium is maintained due to pressure which prevents the removal of gaseous products which is, however, possible at 200°C. When the sample is heated to 150°C after CaC or MgO have been added salts of the types MeF₂ and MeHF₂ are formed. This process is intensified by heating to 200°C. Heating in the thermostat is accompanied by a loss in solubility which proves crosslinking. On heating to 150°C in the thermostat, gases formed can be removed which is reflected by spectral data and, at the same time, double bonds are formed. This reaction is catalyzed by the presence of metal oxides in the copolymer. When heating is continued up to 200°C, crosslinking occurs so rapidly that no double-bond absorption bands were found in the copolymer heated in the thermostat. Pressure application retards crosslinking due to a decreased chain mobility. The reference to the English-language publication reads as follows: J. F. Smith, Rubber World 142, 102, 1960.

Card 3/4

Structural transformation ...

S/190/62/004/003/016/023 B124/B101

ASSOCIATION: NII rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry). Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED:

March 3, 1961

Nauchno-issledovateľskiy institut rezinovou promyshlennosti i fiziko-k**hi**mcheskiy institut imeni L. Ya. Karpova

Card 4/4

NOVIKOV, A.S.; GALIL-OGLY, F.A.; SLOVOKHOTOVA, N.A.; DYAMAYEVA, T.N.; KARGIN, V.A.

Vulcanization of fluorine-containing copolymers with polyamines with the use of infrared spectroscopy. Vysokom. soed. 4 no.12:1799-1805 D '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.
(Fluorine compounds)
(Polymers)
(Vulcanization)

38515

\$/138/62/000/006/001/008 A051/A126

15,9205

AUTHORS:

Borisov, S.N., Karlin, A.V., Chudesova, L.M., Galil-Ogly, P.A.,

Chebysheva, L.M.

TITLE:

Properties of ethylphenylsiloxane rubbers

PERIODICAL: Kauchuk i rezina, no. 6, 1962, 3 - 6

TEXT: The relation between the methylphenylsiloxane ring content in rubbers and their optimum frost resistance was determined by producing and investigating polymers containing from 2 to 10 mol % of the methylphenylsiloxane rings. Optimum frost resistance was found in rubbers based on polymers and containing $8 \ \text{mol} \ \mathcal{S}$ methylphenylsiloxane rings. The substitution of the latter with diethylsiloxane rings yields elastomers with the following characteristics: a) the ability to vulcanize with lesser quantities of benzoyl peroxide and with weak vulcanizing agents, such as dicumyl peroxide; b) a higher resistance to accumulation of residual deformations after compression; c) resistance to destruction in closed systems. A study of synthesized ethylphenylsilokane elastomers showed that they combine the advantages of both the diethylsiloxane and methylphenylsiloxane elas-

Card 1/2

Properties of

\$/138/62/000/006/001/008 A051/A126

tomers. They vulcanize with a lesser quantity of benzoyl peroxide and dicumyl peroxide, as compared to the methylphenylsiloxane rubbers. They have a higher resistance to destruction in closed systems and regeneration capacity after simultaneous action of elevated temperatures and loads. The rubbers based on the ethylphenylsiloxane polymers are equal to the methylphenylsiloxane rubbers in their thermal and frost resistance, within a temperature range of -100 to +250°C. The properties of ethylphenylsiloxane rubbers are improved by substituting the Y -333 (U-333) silica gel with the more active EC-280 (BS-280). There are 2 tables and 3 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva i Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (All-Union Scientific Research Institute of Synthetic Rubber im. S.V. Lebedev and the Scientific Research Institute of the Rubber Industry)

Card 2/2

NOVIKOV, A.S.; GALIL-OGLY, F.A.; FRADKINA, F.Ye.; SUKHOTINA, T.M.; FOMINA, L.G.

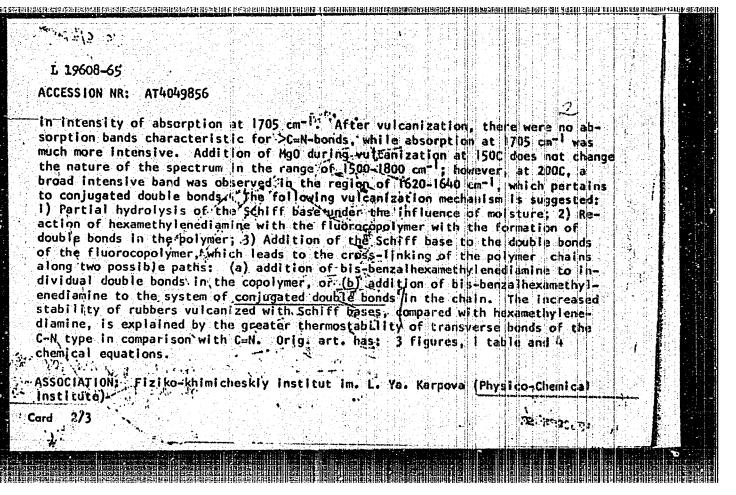
Technological properties of rubber compounds based on the ethylenepropylene synthetic rubber and technical characteristics of their vulcanizates. Kauch.i rez. 21 no.7:1-5 J1 162. (MIRA 15:7)

Nauchno-issledovatel akiy institut rezinovoy promyshlennosti.
(Rubber, Synthetic)

	Pr-1 PM/BW/WW/JWD/H ACCIDES ION NR: AP3000695 B/0190/63/005/005/005/0687/0692
	AUTHOR: Lyubimov. A. H.; Novikov. A. S.; Galil-Ogly*, F. A.; Gribachava, A. V.
	TITLE: The application of nuclear magnetic resonance in the study of vulcanization-induced structural changes of copolymers containing fluorine
	SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 687-692
	TOPIC TAGS: muclear magnetic resonance, vulcanization, structural changes, fluo- rine-containing copolymers, hexamethylenediamine, MgO
	ABSTRACT: The authors studied the effects of temperature, materials, and vulcani-
f	like fluorine-containing nolymeral/of the Voltage and hydrogen resonance lines in rubber-
	were either heated in moulds under releasing accordance under investigation
•	canized materials of the Vaiton type complyment obtained as well as vul-
	gen fluoride. The obtained records of the absorption and MgO as receptor of hydro-
	showed that heating as such to 150 to 2000 does not cause any noticeable change in

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	merked one 1	n the hydrogen	lines in both	copolymers th	ean change	a heing inde	enandant	
	or the tember	rature. The e	IIect of the a	mine vulcanizat a radical chang	ion is sti	13 many near	Timonodia :	
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L'19608-65 ENT(m)/EPF(c)/EPR/EMP(1)/T Pc-l/Pr-l/Ps-l BSD/APHI/SSD/ ACCESSION NR: AT4049856 S/0000/64/000/0000/0160/0165 AUTHOR: Movikov, A. S.; Galil-Ogly*, F. A.; Slavokhotova, N. A.; Oyumayeva, T. N. TITLE: Investigation of the vulcanization of fluorocopolymers with Schiff bases by the method of infrared spectroscopy "SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo klauka, 1964, 160-165. TOPIC TAGS: fluorocopolymer, vulcanization, infrared spectroscopy, vulcanizing agent, rubber aging, Schiff base, hexafluoropropylene copolymer, vinylidene infrared spectroscopy. The copolymer of hexafluoropropylene and vinylidene infrared spectroscopy. The copolymer was press-vulcanized at 100-200c for 30 min. hrs. The nature of the structural changes was judged from changes in the Infrared absorption spectra, measured with an IKS-14 instrument using NaCl and IIF prisms. The vulcanizing agent was bis-benzalhexamethylenediamine. Vulcanization at 70-100 card in the infrared spectroscopy and by a decrease in intensity of absorption at 1655 cm-1, which-card in the content of the Scharecopy of the Schar	



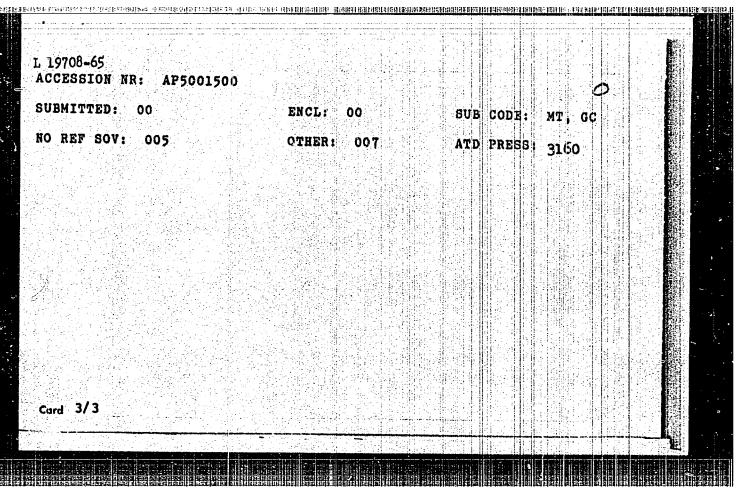
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L 19708-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Ps-4 WW/RM ACCESSION NR: AP5001500 8/0138/64/000/012/0007/0012 AUTHOR: Gilinskaya, N. S.; Galil-Ogly, F. A.; Gubay, G. A.; Novikov, A. S. MANUAL MAN TITLE: Reaction of fluorocarbon elastomers of the Kel-F and Viton types and their vulcanizates with inorganic acids SOURCE: Kauchuk i rezina, no. 12, 1964, 7-12 TOPIC TAGS: fluorocarbon elastomer, fluorocarbon elastomer vulcani zate, Kel F, Viton, nitric acid ABSTRACT: The effect of nitric acid on the structure and properties of elastomers of the Soviet Kel-F and Viton types and their vulcanizates has been studied. The experiments were conducted at room temperature with specimens 0.5-1.0 mm thick, both while the specimens were in the swollen state and after removal of the ac d from the specimens. Changes in the structure and properties of ray elastomers treated with HNO3 for 1-40 days were evaluated by viscosimetry, IR spectroscopy, and changes in the physicomechanical properties. It was shown that swelling of raw elastomers in nitric acid simost reversitly Card 1/3

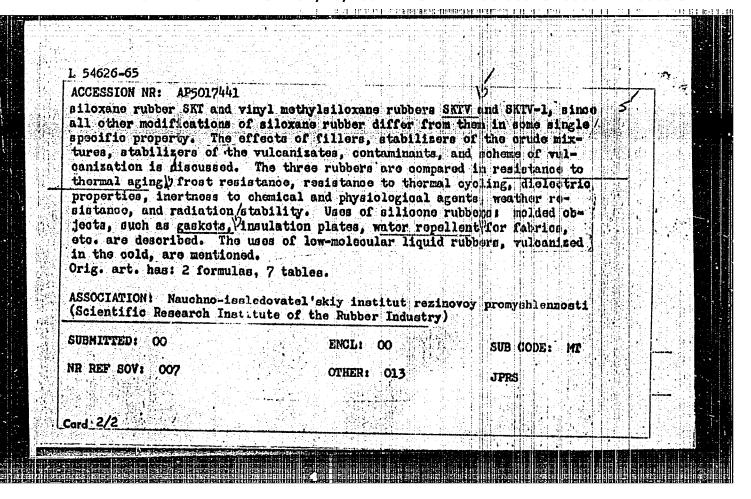
L 19708-65 ACCESSION NR: AP5001500 lowers their tensile strength and increases their elongation. Treatment of raw elastomers with HNO3 for 40 days did not affect the properties and network structures of vulcanizates. Swelling of raw elastomers in HNO3 did not give rise to polymer chain degradation or to appreciable structural changes. Changes in the structure and properties of fluorocarbon vulcanizates were determined from equilibrium swelling and changes in physicomechanical properties. The experiments were conducted with unfilled and filled vulcanizates prepared with different vulcanizers and treated with HNO3 for 24 and 72 hr, respecttively. It was shown that the highest resistance to HNO3 is imhibited by silica-filled peroxide vulcanizates (with C-C crosslines). After removal of the acid, the physicomechanical properties of these vulcanizates are fully restored and their network density remains almost unchanged, while the strength and network density of vulcanizates prepared with other vulcanizers, such as Schiff's bases or chelate compounds, drops after treatment with and removal of HNO3. Orig. art. has | 1 figure and 6 tables. ASSOCIATION: Nauchno-issledovatel'skiy institut rezimovoy promyshlennosti (Scientific Research Institute of the Rubber Industry) Card 2/3

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AUTHOR: Galil-Ogly, F. A.:	Gilinskaya, N. S.
TITLE: Fluorocarbon vulcani	izates 16
SOURCE: Kauchuk i rezina, n	no, 3, 1965, 1-8
TOPIC TAGS: fluorocarbon, s	synthetic rubber, sealant, fluorgearbon vulcanizate
references most of which are	cle, concerning fluorocarbon vulcanizates, contains 53
cluded: Methods of preparat fluorocarbon vulcanizates; a section stresses the importa sealing components in jet en	re from Western sources. The following healings are in tion of vulcanizates from fluor carbons; Properties of and Application of fluor carbon vulcanizates. The last ance of these products in the aviation industry, as agines. Orig. art. has: 10 tables. [VS] lovatel skiy institut rezinovoy promyshlennosti (Scien- the Rubber Industry)
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TITLE: Prope	rties and use of	ćured rubbers	from silicon	a raw rubb	era b	3
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TOPIC TAGS!						
istability (up high electric exceptional ware produced sation of the The molecular and strength Silicone rubbile products fication poin	licone rubbers as to +250-300 °C) s al insulation pro ater-repelling pr by hydrolysis of hydrolysis produ weight determine properties of the ers are colorless up to +160°C, as 180°C; orystall ption of the pro	and frost resist operties, stabi- roperties, and dialkyldichlor nots in the pre- es the technologies cured rubbers s, odorless, pre- nd are nontoxical isation point	tance (down lity to atmost physiological conceptions; optimizes actically doubt -66°C.	to -55 to - pheric inf liner tass loved by po- lior basio ties of the 500,000-800 not libers gravity 0.1	lingo, linences, They lyconden- cutalyats, mixtures ,000. to vola- le gives	



GILINSKAYA, N.S.; GALIL-OGLY, F.A.; GUBAY, G.A.; NOVIKOV, A.S.

Interaction of type Kel-F and Viton fluorine rubbers and their vulcanizates with inorganic acids. Kauch. i rez. 23 no.12:7-12 D '64. (MIRA 18:2)

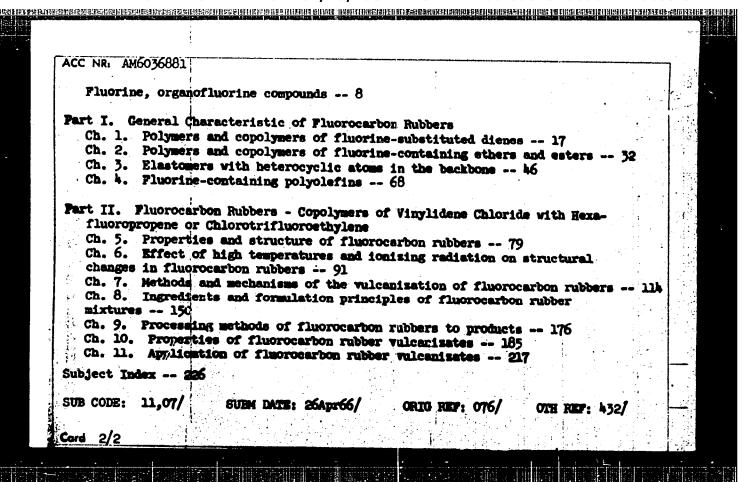
1. Nauchno-issledovatel*skiy institut rezinovoy promyshlennosti.

CILINSKAYA, N.S.; CALIL-CGLY, F.A.; NUDEL'MAN, Z.N.; NOVIKOV, A.S.

Vulcanization of the fluoropolymer of Fluoroelastomer 26 with
Schiff bases, Kauch. 1 rez. 24 no.9:2-6 '65. (MIRA 18:10)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

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ACC NR: AM6036881	Monograph			R/ :
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Fluorocarbon rubbers and	their vulcanizates (Ft.	rkmemit t w	orine no dish and	
Moscow, Izd-vo "Khimiya copies printed."	a", 1966. 234 p. illus	s., biblio., in	dex., tables.	000
TOPIC TAGS: fluorocarbon	, vulcanization, polym	er i		
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references. The refere	sucas are Graen of the	end of individ	ual chapters.	
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GALIL-OGLY, G. A. (Moskva, D-80, ul. Vrubelya, 6, korp. 5, kv. 16);

POROSHIN, K. K. (Moskva, G-34, Kursovoy per., 4/2, kv. 15)

Tumors of the sympathetic nervous system. Vop. onk. 8 no.7:
31-38 '62. (MIRA 15:7)

1. Iz gorodskoy bol'nitsy No. 57 g. Moskvy (glav. vrach - 3. B. Vol'feon) i TSentrel'nov retclogoanatomicheskoy laboratorii (nach. - prof. A. V. Smol'yannikov), Moskva.

(NERVOUS SYSTEM, SYMPATHETIC.—TUMORS)

FISHZON-RYSS, Yu.I., kand.med.nauk; GALIL-OGLY, G.A., kand.med.nauk; POROSHIN, K.K. (Moskva)

Adrenal neuroblastomas. Klin.med. 40 no.6:71-78 Je '62.
(MIRA 15:9)

1. Iz 5/-y bol'nitsy Moskvy (glavnyy vrach S.B. Vol'fson).
(ADRENAL GLANDS—CANCER)

GALII-ogly, G. A. Cand Med Sci -- (diss) "Data in the medicolegal cheresteristics of medical errors in diagnostics and treatment of appendicitis." Mos, 1957.

16 pp 20 cm. (First Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, 24-57, 121)

-73-

GALIL-OCHT, G.A. (Moskva)

Errors in diagnosis in acute appendicitis; according to forensic medical data. Klin. med. 35 no.1:86-89 Ja '57 (MIRA 10:4)

1. Iz kafedry sudebnoy meditsiny (zav.-kafedroy-prof. V.F. Chervakov) i Moskovskogo ordena Lenina meditsinskogo instituta. (APPENDICITIS, differ. diag. errors in acute appendicitis)

GALIL-OGLY, G.A.; POROSHIN, K.K.

Reticulosarcomatosis with disorder of the brain and spinal cord. Zhur. nevr. i psikh. 61 no.11:1655-1657 '61. (MIRA 15:2)

1. Patologoanatomicheskoye otdeleniye (zav. G.A.Galil-Ogly) bol'nitsy No.57 g. Moskvy (glavnyy vrach S.B.Vol'fson). (BRAIN_TUMORS) (SPINAL CORD_TUMORS)

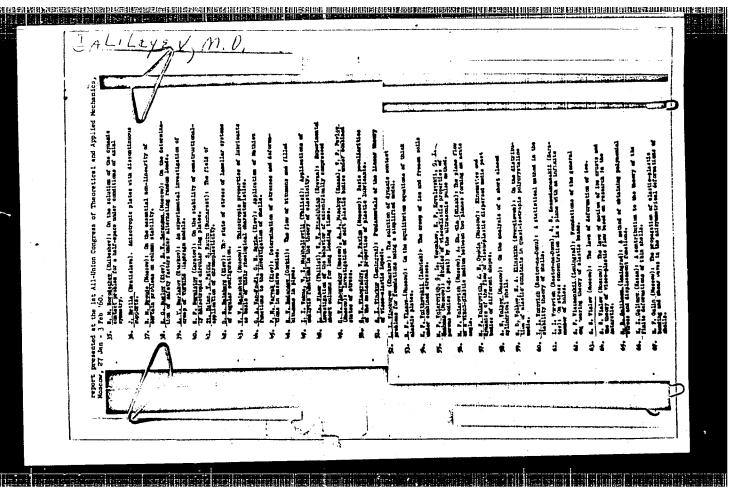
Oncocytomas. Arkh. pat. 27 no.8:43-49 *65. (MIRA 18:10)

1. TSentral naya patologoanatomicheskaya laboratoriya (nachal nik - kand.med.nauk A.K. Apatenko) pri TSentral nom voyenno-meditsinskom upravlenii Ministerstva oborony SSSR i gorodskaya bol nitsa No.57 (glavnyv vrach S.B. Vol'fson).

SEMENOVICH, N.I., kand. med. nauk; STEPANOV, N.G., kand. med. nauk;
GALIL-CGLY, G.A., kand. med. rauk; PCRESHIN, K.K., karm. med.
nauk

Some data on the clinical and morphological aspects of Chiarita
disease. Sov. med. 28 no.8:26-31 Ag '65. (MIRA 18:9)

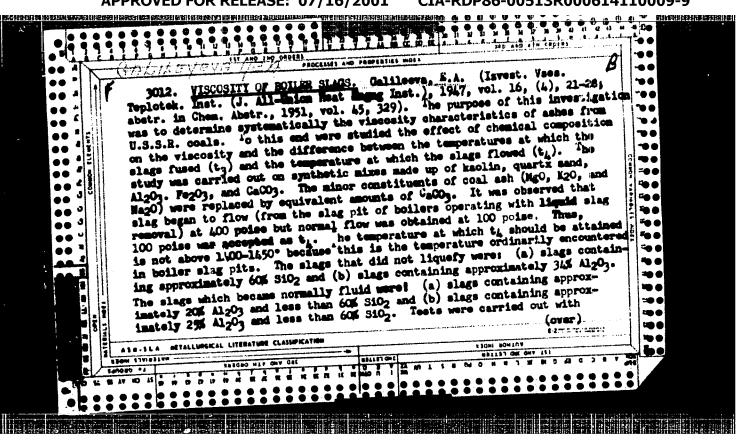
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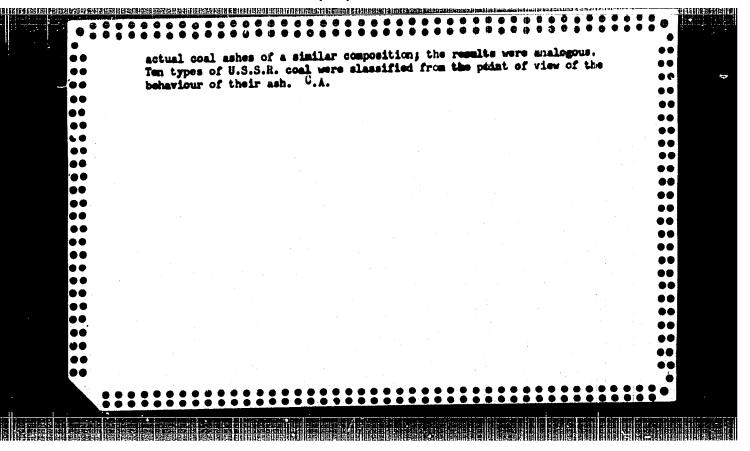


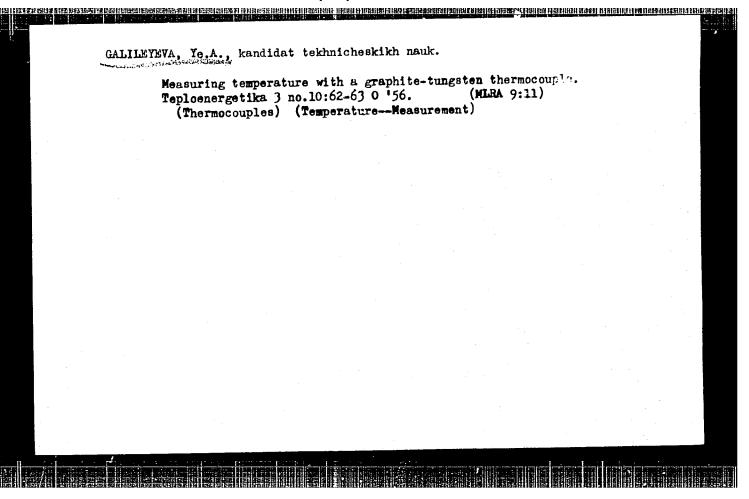
GALILETEV, M.D., inzh.

Solving the plane problem of the theory of elasticity using integral algebraic functions. Sbor.LIIZHT no.164:276-285 '59. (MIRA 13:8)

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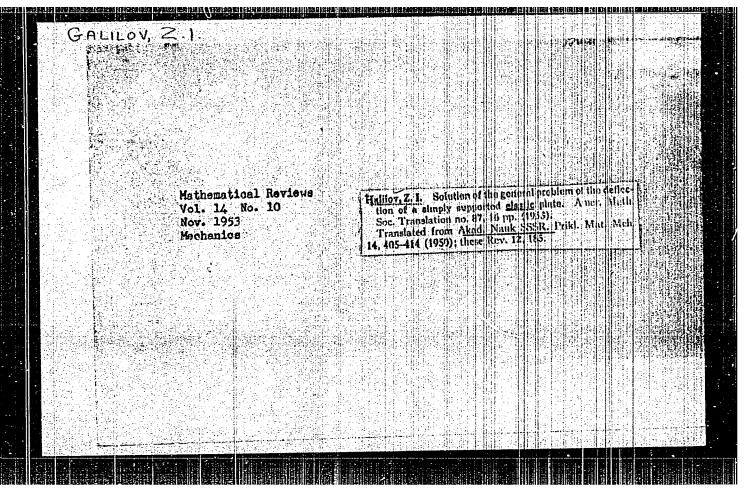


GALILOV, S.P., starshiy nauchnyy sotrudnik

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Zashch. rast. ot vred. i bol. 7 no.3:32 Mr '62. (MIRA 15:11)

1. Azerbaydzhanskaya stantsiya zashchity rasteniy, Baku.
(Potatoes—Disease and pest resistance)
(Plants, Effect of trace elements on)

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"Influence of the Salts of Heavy Metals on the Local Anesthetic Effect of Cocaine, Dicaine, and Novocaine." Thesis for degree of Cand. Medical Sci. Sub 16 May 49, First Moscow Order of Lenin Medical Inst.

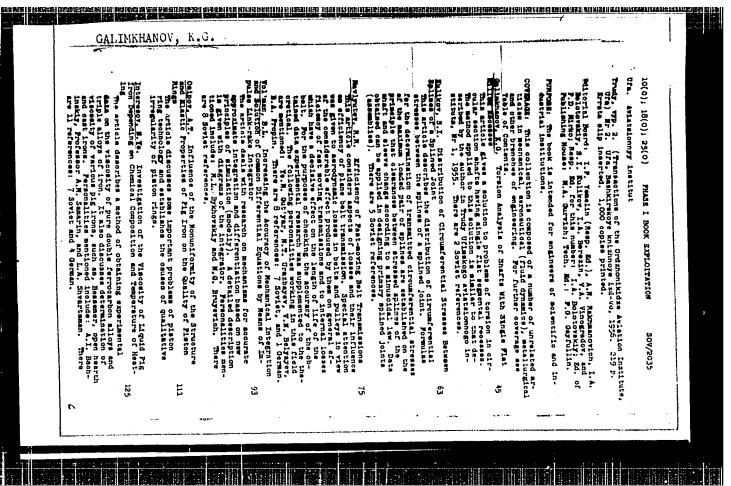
Summary 82, 18 Dec 52, <u>Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskya</u>, Jan-Dec 1949.

GALIMKHANOV, K. G.

"Method of Sectoral Sections in Calculations of Torsional Strength of Prismatic Bars of a Nonround Cross Section." Sub 19 Apr 51, Moscow Aviation Technological Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

50: Sum. No. 480, 9 May 55



SOV/124-57-8-9559

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 140 (USSR)

AUTHOR: Galimkhanov, K. G.

TITLE: Torsion of Semicircular-section Beams (Krucheniye sterzhney poluk-

rugovogo secheniya)

PERIODICAL: Tr. Ufimsk. aviats. in-ta, 1956, Nr 2, pp 33-43

ABSTRACT: The author reproduces the well-known Saint-Venant solution for the

torsion of beams having a circular-sector cross section.

K. V. Solyanik-Krassa

Card 1/1

SOV/124-57-7-8166

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 109 (USSR)

AUTHOR:

Galimkhanov, K. G.

TITLE:

The Torsion Design Calculation of Single-flat Shafts (Raschet odnoly-

sochnykh valov na krucheniye)

PERIODICAL: Tr. Ufimsk. aviats. in-ta, 1956, Nr 2, pp 45-62

ABSTRACT:

The method suggested by the author in a previous paper (RZhMekh, 1956, abstract 4626) is used for the approximate solution of the torsion problem for a single-flat shaft. The author is evidently unaware of the book by Ya. S. Uflyand [Bipolyarnyye koordinaty v teorii uprugosti (Bipolar Coordinates in the Theory of Elasticity) Moscow-Leningrad, Gostekhizdat, 1950], which gives an accurate solution of the above-mentioned problem.

B. K. Prokopov

Card 1/1

137-58-6-12297

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 159 (USSR)

AUTHOR: Galımkhanov, K.G.

TITLE: Physical Fundamentals of Surface Hardening of Machine Parts,

and Rational Selection of Type of Treatment (Fizicheskiye osnovy i ratsional'nyy vybor poverkhnostnogo uprochneniya

detaley mashin)

PERIODICAL: V sb.: Ufimsk, gor. nauchno-tekhn. konferentsiya, posv-

yashch. vypolneniyu direktiv XX s"yezda KPSS po tekhn.

progressu v prom-sti. Ufa, 1957, pp 62-70

ABSTRACT: A description is offered of the reasons for the need for

hardening the surfaces of parts; a list of the types of surface hardening and coatings is provided. Mechanical work-hardening of surfaces increases $\mathcal{O}_{\mathbf{w}}$ by 25-30%. There is a brief elucidation of the effect of other types of surface treatment (galvanizing, cyaniding, nitriding, etc.) and also of combina-

tions of various types of surface treatment.

Yu.L.

Card 1/1

1. Machine tools--Equipment 2. Metals--Hardening 3. Coatings

--Applications

